

# List of symbols

- $\mathbb{R}$ : the set of real numbers
- $\mathbb{R}_+$ : the set of nonnegative real numbers
- $\mathbb{Z}$ : the set of integer numbers
- $\{0, 1\}^n$ : is the cartesian product of  $n$  copies of the set  $\{0, 1\}$
- Let  $a \in \mathbb{R}$ ,  $\lfloor a \rfloor := \max\{c \in \mathbb{Z} : c \leq a\}$
- Let  $a \in \mathbb{R}$ ,  $\lceil a \rceil := \min\{c \in \mathbb{Z} : c \geq a\}$
- $\mathbf{1}$  is a vector with all the components equal to 1
- $|U|$  is the number of elements belonging to the set  $U$
- Let  $V$  be a set and  $S \subseteq V$ , define  $S^c := V \setminus S$ .

